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>Title: IL0133264A0: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN TRANSDUCED CELLS

Derwent Title: New human polynucleotide useful for treating angiogenesis, restenosis, and inflammation [Derwent Record](#)

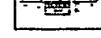
Country: IL Israel

Kind: A0 Notice under SECTION 16 of the Patent Law



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Inventor: see Assignee



Assignee: INSIGHT STRATEGY & MARKETING LTD.
HADASIT MEDICAL RESEARCH SERVICES & DEVELOPMENT LTD.
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1998-07-02 [US1998000109386](#)
1998-08-31 [WO1998US0017954](#)

INPADOC Legal Status: None [Get Now: Family Legal Status Report](#)

Designated Country: AL AM AP AZ BA BB BG BR BY CA CU CZ EA EE GE GH GM HR ID IL IS KE KG AT BE CH DE DK ES FI FR GB GR IE IT

Family:

PDF	Publication	Pub. Date	Filed	Title
<input checked="" type="checkbox"/>	WO9957244A1	1999-11-11	1999-04-29	GENETICALLY MODIFIED CELLS AND METHODS FOR EXPRESSING RECOMBINANT HEPARANASE AND METHODS OF PURIFYING SAME
<input checked="" type="checkbox"/>	WO9957153A1	1999-11-11	1999-04-29	HEPARANASE SPECIFIC MOLECULAR PROBES AND THEIR USE IN RESEARCH AND MEDICAL APPLICATIONS
<input checked="" type="checkbox"/>	WO9948478A1	1999-09-30	1999-03-22	USE OF GLYCOSAMINOGLYCANs DEGRADING ENZYMES FOR MANAGEMENT OF AIRWAY ASSOCIATED DISEASES
<input checked="" type="checkbox"/>	WO9911798A1	1999-03-11	1998-08-31	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN TRANSDUCED CELLS
<input checked="" type="checkbox"/>	WO0235350C2	2003-02-20	2001-10-15	INCREMENTAL CLUSTERING CLASSIFIER AND PREDICTOR
				INCREMENTAL CLUSTERING CLASSIFIER

POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND...

	<u>WO0235350A1</u>	2002-05-02	2001-10-15	AND PREDICTOR
	<u>WO0219962A3</u>	2002-07-11	2001-09-05	THERAPEUTIC AND COSMETIC USES OF HEPARANASES
	<u>WO0219962A2</u>	2002-03-14	2001-09-05	THERAPEUTIC AND COSMETIC USES OF HEPARANASES
	<u>WO0052178A1</u>	2000-09-08	2000-02-14	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN GENETICALLY MODIFIED CELLS
	<u>WO0052149A1</u>	2000-09-08	2000-02-10	INTRODUCING A BIOLOGICAL MATERIAL INTO A PATIENT
	<u>WO0025817A1</u>	2000-05-11	1999-10-28	HEPARANASE ACTIVITY NEUTRALIZING ANTI-HEPARANASE MONOCLONAL ANTIBODY
	<u>WO0003036A1</u>	2000-01-20	1999-07-12	METHOD OF SCREENING FOR POTENTIAL ANTI-METASTATIC AND ANTI-INFLAMMATORY AGENTS USING MAMMALIAN HEPARANASE AS A PROBE
	<u>US20060008892A1</u>	2006-01-12	2005-06-17	Methods of and pharmaceutical compositions for improving implantation of embryos
	<u>US20050260187A1</u>	2005-11-24	2005-04-15	Therapeutic and cosmetic uses of heparanases
	<u>US20040229834A1</u>	2004-11-18	2004-05-24	Heparanase specific molecular probes and their use in research and medical applications
	<u>US20040213789A1</u>	2004-10-28	2003-08-22	Heparanase activity neutralizing anti-heparanase monoclonal antibody and other anti-heparanase antibodies
	<u>US20040175371A1</u>	2004-09-09	2004-03-15	Introducing a biological material into a patient
	<u>US20040170631A1</u>	2004-09-02	2003-11-28	Heparanase activity neutralizing anti-heparanase monoclonal antibody and other anti-heparanase antibodies
	<u>US20040146925A1</u>	2004-07-29	2004-02-26	Heparanase specific molecular probes and their use in research and medical applications
	<u>US20040146497A1</u>	2004-07-29	2004-02-20	Therapeutic and cosmetic uses of heparanases
	<u>US20040142427A1</u>	2004-07-22	2004-02-25	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	<u>US20040063135A1</u>	2004-04-01	2003-10-02	Heparanase specific molecular probes and their use in research and medical applications
	<u>US20030236215A1</u>	2003-12-25	2003-06-09	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	<u>US20030217375A1</u>	2003-11-20	2003-02-24	Transgenic animals expressing heparanase and uses thereof
	<u>US20030190737A1</u>	2003-10-09	2003-03-10	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	<u>US20030181687A1</u>	2003-09-25	2003-02-19	Heparanase activity neutralizing anti-heparanase monoclonal antibody
	<u>US20030170860A1</u>	2003-09-11	2003-03-10	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	<u>US20030161823A1</u>	2003-08-28	2003-01-14	Therapeutic and cosmetic uses of heparanases
	<u>US20030068806A1</u>	2003-04-10	2002-05-03	Genetically modified cells and methods for expressing recombinant heparanase and methods of purifying same
	<u>US20030031660A1</u>	2003-02-13	2002-06-07	Method of inducing bone formation
				Polynucleotide encoding a polypeptide having

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	US20020168749A1	2002-11-14	2001-11-19	heparanase activity and expression of same in genetically modified cells
	US20020114801A1	2002-08-22	1999-06-01	HEPARANASE SPECIFIC MOLECULAR PROBES AND THEIR USE IN RESEARCH AND MEDICAL APPLICATIONS
	US20020102619A1	2002-08-01	2001-09-04	Heparanase specific molecular probes and their use in research and medical applications
	US20020102560A1	2002-08-01	2001-02-06	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	US20020088019A1	2002-07-04	2001-10-17	Methods of and pharmaceutical compositions for improving implantation of embryos
	US20020068061A1	2002-06-06	1998-11-04	HEPARANASE ACTIVITY NEUTRALIZING ANTI-HEPARANASE MONOCLONAL ANTIBODY
	US20020068054A1	2002-06-06	2000-12-04	Therapeutic and cosmetic uses of heparanases
	US20020064858A1	2002-05-30	1998-08-27	COMPOSITIONS INCLUDING GLYCOSAMINOGLYCANs DEGRADING ENZYMES AND USE OF SAME AGAINST SURFACE PROTECTED BACTERIA
	US20020059202A1	2002-05-16	2001-05-14	Incremental clustering classifier and predictor
	US20020004585A1	2002-01-10	2001-01-16	Heparanase specific molecular probes and their use in research and medical applications
	US20010006630A1	2001-07-05	1999-03-02	INTRODUCING A BIOLOGICAL MATERIAL INTO A PATIENT
	US7049407	2006-05-23	2001-01-16	Heparanase specific antibodies and their use in research and medical applications
	US6986996	2006-01-17	2004-02-26	Heparanase specific molecular probes and their use in research and medical applications
	US6960471	2005-11-01	2003-03-10	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	US6946131	2005-09-20	2003-02-19	Heparanase activity neutralizing anti-heparanase monoclonal antibody
	US6800441	2004-10-05	2001-09-04	Heparanase specific molecular probes and their use in research and medical applications
	US6790658	2004-09-14	2001-11-19	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	US6699672	2004-03-02	2000-11-03	Heparanase specific molecular probes and their use in research and medical applications
	US6664105	2003-12-16	1999-11-08	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
	US6562950	2003-05-13	1998-11-04	Heparanase activity neutralizing anti-heparanase monoclonal antibody
	US6531129	2003-03-11	1999-06-01	Heparanase specific molecular probes and their use in research and medical applications
	US6475763	2002-11-05	2000-01-19	Genetically modified cells and methods for expressing recombinant heparanase and methods of purifying same
	US6426209	2002-07-30	2000-08-10	Genetically modified cells and methods for expressing recombinant heparanase and methods of purifying same
	US6423312	2002-07-23	1998-08-27	Compositions including glycosaminoglycans degrading enzymes and use of same against surface protected bacteria
				Genetically modified cells and methods for

	US6348344	2002-02-19	1999-03-02	expressing recombinant heparanase and methods of purifying same
	US6190875	2001-02-20	1998-07-10	Method of screening for potential anti-metastatic and anti-inflammatory agents using mammalian heparanase as a probe
	US6177545	2001-01-23	1998-05-01	Heparanase specific molecular probes and their use in research and medical applications
	US6153187	2000-11-28	1998-03-25	Use of glycosaminoglycans degrading enzymes for management of airway associated diseases
	US5968822	1999-10-19	1997-09-02	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in transduced cells
	TR0000578T2	2000-07-21	1998-08-31	Heparanas aktiviteye sahip olan bir polipeptit desifre eden polin Kleotit ve nevrlimis h creerde aynisini izahi.
	PL0338949A1	2000-12-04	1998-08-31	POLYNUCLEOTIDE CODING A POLYPEPTIDE INDICATIVE OF HEPARANASE ACTIVITY AND ITS EXPRESSION IN CELLS SUBJECT TO TRANSDUCTION
	NO20014218A0	2001-08-31	2001-08-31	INTRODUKSJON AV BIOLOGISK MATERIALE INN I EN PASIENT
	NO20014218A	2001-10-26	2001-08-31	INTRODUKSJON AV BIOLOGISK MATERIALE INN I EN PASIENT
	NO20012190A0	2001-05-03	2001-05-03	Heparanase aktivitetsneytraliserende anti-heparanase monoklonalt antistoff
	NO20012190A	2001-06-12	2001-05-03	Heparanase aktivitetsneytraliserende anti-heparanase monoklonalt antistoff
	NO20010136A0	2001-01-09	2001-01-09	Fremgangsm te for screening av potensielle anti-metastase og anti-inflammatoryiske midler ved bruk av pattedyr heparanase som en probe
	NO20010136A	2001-03-09	2001-01-09	Fremgangsmte for screening av potensielle antimetastase og antiinflammatoryiske midler ved anvendelse av pattedyr heparanase som en probe
	NO20005100A0	2000-10-10	2000-10-10	GENETISK MODIFISERTE CELLER OG FREMGANGSMTER FOR EKSPRESJON AV REKOMBINANT HEPARANASE OG FREMGANGSMTER FOR RENSING AV SAMME
	NO20005100A	2000-12-28	2000-10-10	GENETISK MODIFISERTE CELLER OG FREMGANGSMAATER FOR EKSPRESJON AV REKOMBINANT HEPARANASE OG FREMGANGSMAATER FOR RENSING AV SAMME
	NO0996229A0	1999-12-15	1999-12-15	Heparanase spesifikke molekylaere prober og deres anvendelse i forskning og medisin
	NO0996229A	2000-02-24	1999-12-15	Heparanase spesifikke molekylre prober og deres anvendelse i forskning og medisin
	NO0996228A0	1999-12-15	1999-12-15	Polynucleotid som koder et polypeptid med heparanase aktivitet samt ekspresjon derav i transduserte celler
	NO0996228A	2000-02-28	1999-12-15	Polynucleotid som koder et polypeptid med heparanaseaktivitet, og ekspresjon av samme i transduserte celler
	JP2002543759T2	2002-12-24	1999-10-28	
	JP2002538181A2	2002-11-12	2000-02-10	
	JP2002520029T2	2002-07-09	1999-07-12	
	JP2002513560T2	2002-05-14	1999-04-29	

POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND...

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<input checked="" type="checkbox"/>	<u>IL0140298A0</u>	2002-02-10	1999-07-12	METHOD OF SCREENING FOR POTENTIAL ANTI-METASTATIC AND ANTI-INFLAMMATORY AGENTS USING MAMMALIAN HEPARANASE AS A PROBE
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<input checked="" type="checkbox"/>	<u>HU0002675AB</u>	2000-12-28	1998-08-31	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN TRANSDUCED CELLS
<input checked="" type="checkbox"/>	<u>ES2259816T3</u>	2006-10-16	1998-08-31	CODIFICACION POLINUCLEOTIDA DE UN POLIPEPTIDO CON ACTIVIDAD HEPARANASA Y EXPRESION DEL MISMO EN CELULAS TRANSDUCIDAS.
<input checked="" type="checkbox"/>	<u>EP1676912A2</u>	2006-07-05	1998-08-31	Medical equipment containing a polypeptide having heparanase activity
<input checked="" type="checkbox"/>	<u>EP1489183A1</u>	2004-12-22	1998-08-31	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in transduced cells
<input checked="" type="checkbox"/>	<u>EP1439226A3</u>	2004-10-06	1998-08-31	A nucleic acid antisense sequence to a polynucleotide encoding a polypeptide having heparanase activity
<input checked="" type="checkbox"/>	<u>EP1439226A2</u>	2004-07-21	1998-08-31	A nucleic acid antisense sequence to a polynucleotide encoding a polypeptide having heparanase activity
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<input checked="" type="checkbox"/>	<u>EP1157118A1</u>	2001-11-28	2000-02-14	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN GENETICALLY MODIFIED CELLS

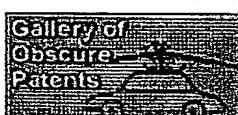
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<input checked="" type="checkbox"/>	<u>EP1126878A1</u>	2001-08-29	1999-10-28	HEPARANASE ACTIVITY NEUTRALIZING ANTI-HEPARANASE MONOCLONAL ANTIBODY
<input checked="" type="checkbox"/>	<u>EP1097241A1</u>	2001-05-09	1999-07-12	METHOD OF SCREENING FOR POTENTIAL ANTI-METASTATIC AND ANTI-INFLAMMATORY AGENTS USING MAMMALIAN HEPARANASE AS A PROBE
<input checked="" type="checkbox"/>	<u>EP1076689A4</u>	2003-04-02	1999-04-29	GENETICALLY MODIFIED CELLS AND METHODS FOR EXPRESSING RECOMBINANT HEPARANASE AND METHODS OF PURIFYING SAME
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<input checked="" type="checkbox"/>	<u>EP1073682A4</u>	2001-02-07	1999-04-29	HEPARANASE SPECIFIC MOLECULAR PROBES AND THEIR USE IN RESEARCH AND MEDICAL APPLICATIONS
<input checked="" type="checkbox"/>	<u>EP1073682A1</u>	2001-02-07	1999-04-29	HEPARANASE SPECIFIC MOLECULAR PROBES AND THEIR USE IN RESEARCH AND MEDICAL APPLICATIONS
<input checked="" type="checkbox"/>	<u>EP0998569B1</u>	2006-03-01	1998-08-31	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN TRANSDUCED CELLS
<input checked="" type="checkbox"/>	<u>EP0998569A4</u>	2000-08-16	1998-08-31	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN TRANSDUCED CELLS
<input checked="" type="checkbox"/>	<u>EP0998569A1</u>	2000-05-10	1998-08-31	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN TRANSDUCED CELLS
<input checked="" type="checkbox"/>	<u>DE69833667T2</u>	2007-03-08	1998-08-31	POLYNUKLEOTID, KODIEREND F R EIN POLYPEPTID MIT HEPARANASE-AKTIVIT T UND DESSEN EXPRESSION IN TRANSDUZIERTEN ZELLEN
	<u>DE69833667C0</u>	2006-04-27	1998-08-31	POLYNUKLEOTID KODIEREND F R EIN POLYPEPTID MIT HEPARANASE-AKTIVIT T UND DESSEN EXPRESSION IN TRANSDUZIERTEN ZELLEN
<input checked="" type="checkbox"/>	<u>CN1272886T</u>	2000-11-08	1998-08-31	Polynucleotide encoding polypeptide having heparanase activity and expression of same in transduced cells
<input checked="" type="checkbox"/>	<u>CN1272886A</u>	2000-11-08	1998-08-31	Polynucleotide encoding polypeptide having heparanase activity and expression of same in transduced cells
<input checked="" type="checkbox"/>	<u>CA2364463AA</u>	2000-09-08	2000-02-10	INTRODUCING A BIOLOGICAL MATERIAL INTO A PATIENT
<input checked="" type="checkbox"/>	<u>CA2349622AA</u>	2000-05-11	1999-10-28	HEPARANASE ACTIVITY NEUTRALIZING ANTI-HEPARANASE MONOCLONAL ANTIBODY
<input checked="" type="checkbox"/>	<u>CA2335382AA</u>	2000-01-20	1999-07-12	METHOD OF SCREENING FOR POTENTIAL ANTI-METASTATIC AND ANTI-INFLAMMATORY AGENTS USING MAMMALIAN HEPARANASE AS A PROBE
				GENETICALLY MODIFIED CELLS AND

<input checked="" type="checkbox"/>	CA2329142AA	1999-11-11	1999-04-29	METHODS FOR EXPRESSING RECOMBINANT HEPARANASE AND METHODS OF PURIFYING SAME
<input checked="" type="checkbox"/>	CA2296758AA	1999-03-11	1998-08-31	POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY AND EXPRESSION OF SAME IN TRANSDUCED CELLS
<input checked="" type="checkbox"/>	AU9125898A1	1999-03-22	1998-08-31	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in transduced cells
<input checked="" type="checkbox"/>	AU4869799A1	2000-02-01	1999-07-12	METHOD OF SCREENING FOR POTENTIAL ANTI-METASTATIC AND ANTI-INFLAMMATORY AGENTS USING MAMMALIAN HEPARANASE AS PROBE
<input checked="" type="checkbox"/>	AU3870699A1	1999-11-23	1999-04-29	Heparanase specific molecular probes and their use in research and medical applications
<input checked="" type="checkbox"/>	AU3770599A1	1999-11-23	1999-04-29	GENETICALLY MODIFIED CELLS AND METHODS FOR EXPRESSING RECOMBINANT HEPARANASE ANDMETHODS OF PURIFYING SAME
<input checked="" type="checkbox"/>	AU3107799A1	1999-10-18	1999-03-22	USE OF GLYCOSAMINOGLYCANS DEGRADING ENZYMES FOR MANAGEMENT OF AIRWAY ASSOCIATED DISEASES
<input checked="" type="checkbox"/>	AU0761592B2	2003-06-05	2000-02-10	INTRODUCING A BIOLOGICAL MATERIAL INTO A PATIENT
<input checked="" type="checkbox"/>	AU0758485B2	2003-03-20	1999-07-12	Method of screening for potential anti-metastatic and anti-inflammatory agents using mammalian heparanase as a probe
<input checked="" type="checkbox"/>	AU0754228B2	2002-11-07	1999-04-29	Heparanase specific molecular probes and their use in research and medical applications
<input checked="" type="checkbox"/>	AU0751170B2	2002-08-08	1999-10-28	Heparanase activity neutralizing anti-heparanase monoclonal antibody
<input checked="" type="checkbox"/>	AU0735116B2	2001-06-28	1998-08-31	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in transduced cells
<input checked="" type="checkbox"/>	AU0213188A5	2002-05-06	2001-10-15	Incremental clustering classifier and predictor
<input checked="" type="checkbox"/>	AU0184380A5	2002-03-22	2001-09-05	Therapeutic and cosmetic uses of heparanases
<input checked="" type="checkbox"/>	AU0029881A5	2000-09-21	2000-02-10	INTRODUCING A BIOLOGICAL MATERIAL INTO A PATIENT
<input checked="" type="checkbox"/>	AU0028786A5	2000-09-21	2000-02-14	Polynucleotide encoding a polypeptide having heparanase activity and expression of same in genetically modified cells
<input checked="" type="checkbox"/>	AU0013314A5	2000-05-22	1999-10-28	HEPARANASE ACTIVITY NEUTRALIZING ANTI-HEPARANASE MONOCLONAL ANTIBODY
<input checked="" type="checkbox"/>	AT0318912E	2006-03-15	1998-08-31	POLYNUKLEOTID KODIEREND F R EIN POLYPEPTID MIT HEPARANASE-AKTIVIT T UND DESSEN EXPRESSION IN TRANSDUZIERTEN ZELLEN

133 family members shown above

Other Abstract
Info:

CHEMABS 130(17)219167W CHEMABS 134(02)013334X CHEMABS 134(10)128217D
CHEMABS 134(14)188168Y CHEMABS 136(13)195300E DERABS C1999-302255



Nominate this for the Gallery...

claims 20-28

Section 2, 4, 5 against 41

133264/2

claims 9-12 of 1L application

What is claimed is:

144932

1. A polynucleotide fragment comprising a polynucleotide sequence encoding a polypeptide having heparanase catalytic activity, wherein said polypeptide shares at least 70% homology with SEQ ID NO:10, as determined using default parameters of a DNA sequence analysis software package developed by the Genetic Computer Group (GCG) at the University of Wisconsin.
2. The polynucleotide fragment of claim 1, wherein said polynucleotide sequence includes nucleotides 63-1691 of SEQ ID NO:9.
3. The polynucleotide fragment of claim 1, wherein said polynucleotide sequence includes nucleotides 63-721 of SEQ ID NO:9.
4. The polynucleotide fragment of claim 1, wherein said polynucleotide is as set forth in SEQ ID NO:9.
5. The polynucleotide fragment of claim 1, wherein said polynucleotide sequence includes a segment of SEQ ID NO:9, said segment encodes said polypeptide having said heparanase catalytic activity.
6. The polynucleotide fragment of claim 1, wherein said polypeptide includes an amino acid sequence as set forth in SEQ ID NO:10.
7. The polynucleotide fragment of claim 1, wherein said polypeptide includes a segment of SEQ ID NO:10, said segment harbors said heparanase catalytic activity.
8. The polynucleotide fragment of claim 1, wherein said polynucleotide sequence is selected from the group consisting of double stranded DNA, single stranded DNA and RNA.

9. A polynucleotide sequence as set forth in SEQ D NO:9.
10. A polynucleotide sequence at least 70% homologous to SEQ ID NO:9, as determined using default parameters of a DNA sequence analysis software package developed by the Genetic Computer Group (GCG) at the University of Wisconsin, wherein said polynucleotide sequence encodes a polypeptide having heparanase catalytic activity.
11. A vector comprising a polynucleotide sequence encoding a polypeptide having heparanase catalytic activity, wherein said polypeptide shares at least 70% homology with SEQ ID NO:10, as determined using default parameters of a DNA sequence analysis software package developed by the Genetic Computer Group (GCG) at the University of Wisconsin.
12. The vector of claim 11, wherein said polynucleotide sequence includes nucleotides 63-1691 of SEQ ID NO:9.
13. The vector of claim 11, wherein said polynucleotide sequence includes nucleotides 63-721 of SEQ ID NO:9.
14. The vector of claim 11, wherein said polynucleotide sequence is as set forth in SEQ ID NO:9.
15. The vector of claim 11, wherein said polynucleotide sequence includes a segment of SEQ ID NO:9, said segment encodes said polypeptide having said heparanase catalytic activity.
16. The vector of claim 11, wherein said polypeptide includes an amino acid sequence as set forth in SEQ ID NO:10.

17. The vector of claim 11, wherein said polypeptide includes a segment of SEQ ID NO:10, said segment harbors said heparanase catalytic activity.
18. The vector of claim 11, wherein said polynucleotide sequence is selected from the group consisting of double stranded DNA, single stranded DNA and RNA.
19. The vector of claim 11, wherein said vector is a baculovirus vector.
20. A host cell comprising an exogenous polynucleotide fragment including a polynucleotide sequence encoding a polypeptide having heparanase catalytic activity, wherein said polypeptide shares at least 70% homology with SEQ ID NO:10 as determined using default parameters of a DNA sequence analysis software package developed by the Genetic Computer Group (GCG) at the University of Wisconsin.
21. The host cell of claim 20, wherein said polynucleotide sequence includes nucleotides 63-1691 of SEQ ID NO:9.
22. The host cell of claim 20, wherein said polynucleotide sequence includes nucleotides 63-721 of SEQ ID NO:9.
23. The host cell of claim 20, wherein said polynucleotide sequence is as set forth in SEQ ID NO:9.
24. The host cell of claim 20, wherein said polynucleotide sequence includes a segment of SEQ ID NO:9, said segment encodes said polypeptide having said heparanase catalytic activity.
25. The host cell of claim 20, wherein said polypeptide includes an amino acid sequence as set forth in SEQ ID NO:10.
26. The host cell of claim 20, wherein said polypeptide includes a segment of SEQ ID

NO:10, said segment harbors said heparanase catalytic activity.

27. The host cell of claim 20, wherein said polynucleotide sequence is selected from the group consisting of double stranded DNA, single stranded DNA and RNA.

28. A host cell expressing a recombinant heparanase, wherein said recombinant heparanase shares at least 70% homology with SEQ ID NO:10, as determined using default parameter of a DNA sequence analysis software package developed by the Genetic Computer (Group) (GCG) at the University of Wisconsin.

29. A heparanase overexpression system comprising a cell overexpressing heparanase catalytic activity, wherein said heparanase catalytic activity is effected by a recombinant heparanase sharing at least 70% homology with SEQ ID NO:10, as determined using default parameters of a DNA sequence analysis software package developed by the Genetic Computer Group (GCG) at the University of Wisconsin.

30. The host cell of claim 20, wherein said cell is an insect cell.



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